

FIG. 1A

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Variables Maintained At A Node

Zo.	Variable	Description	Type	Value
1	<u>A</u>	Node Identifier	Integer	1-N
2	Direction	Identifier for the ring	Binary	UPSTREAM/DOWNSTREAM
3	LPRcpirection>	Last packet received from <direction></direction>	PACKET	
4	LPT <direction></direction>	Last packet transmitted in <direction></direction>	PACKET	
5	PMSN _{CDirection}	Permission to transmit in <direction></direction>	Binary	ENABLE/DISABLE
9	TR <direction></direction>	Transmission Round in <direction></direction>	Binary	ODD/EVEN
7	'TBR <direction></direction>	Transit Buffer Round in <direction></direction>	Binary	ODD/EVEN
∞	TBTH <direction></direction>	Transit Buffer Threshold in <direction></direction>	Integer	
6	NPQCR _{CDirection}	Number of packets queued in current TBRscoingcolors	Integer	0 Transit Buffer Size
10	NPTCR <direction></direction>	Number of packets transmitted in current TR _{cDirection} >	Integer	

FIG. 18

Packet Fields (Excluding Payload)

				-
No.	Variable	No. Variable Description	Type Value	Value
1	Pkt.Src	Source Identifier	Integer 1 – N	1 - N
2	Pkt.Dst	Destination Identifier	Integer	
3	Pkt.PMSN	Pkt.PMSN Permission to transmit in the	Binary	Binary ENABLE/DISABLE
		opposite direction	•	
4	Pkt.Round	Pkt.Round Transmission round of the	Binary	Binary ODD/EVEN
		packet		

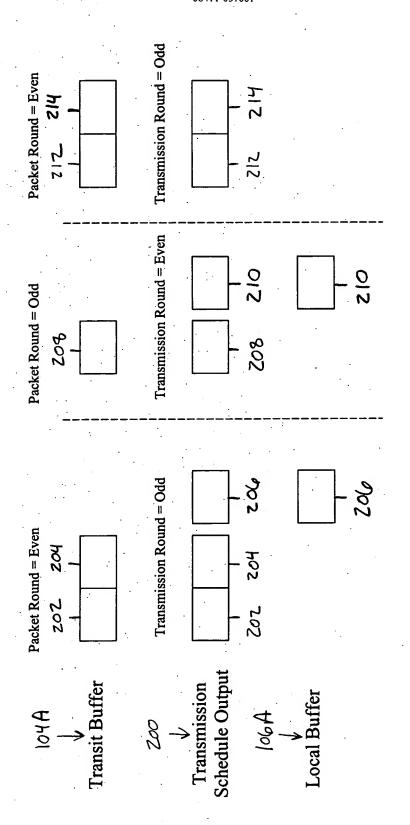
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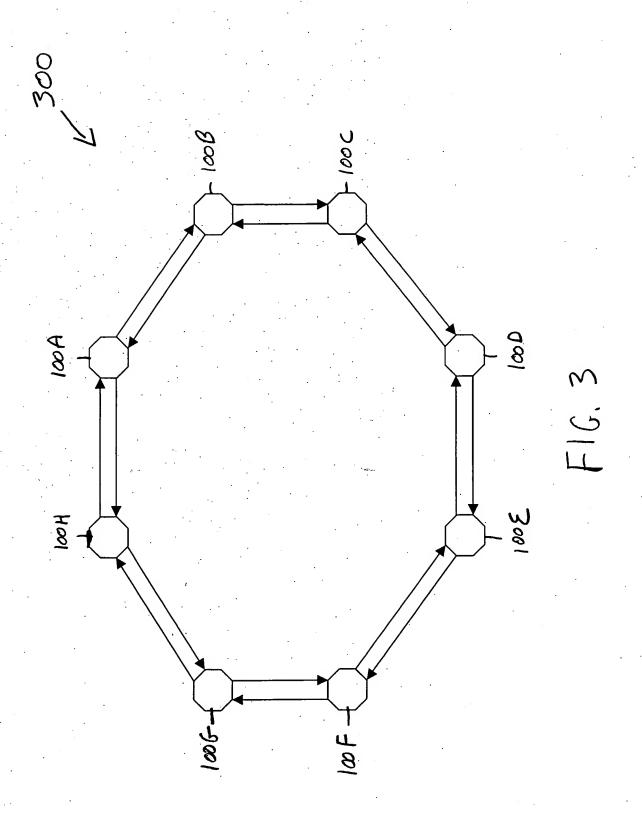
Changes To The Variables Maintained At The Node 100A

Time	(Pkt.Dst, Pkt.Round)	(NPQCR, TBR)	Packet that is queued in Transit	(LPR.Dst, LPR.Round)
			or 104B	
0		(0, ODD)	1	(-,-)
1	(2, ODD)	(0, ODD)	1	(2, ODD)
2	(5, ODD)	(1, ODD)	(5, ODD)	(5, ODD)
3	(1, ODD)	(2, ODD)	(1, ODD)	(7, ODD)
4	(2, EVEN)	(0, EVEN)	_	(2, EVEN)
5	(2, EVEN)	(0, EVEN)		(2, EVEN)
9	-	(0, EVEN)	,	(2, EVEN)
7	(5, ODD)	(1, EVEN)	(5, EVEN)	(2, ODD)
8	(7, EVEN)	(1, ODD)	(7, ODD)	(7, EVEN)

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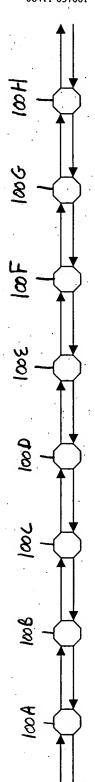


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